

**APRIL 2012
SEMI-ANNUAL MONITORING OF
GROUNDWATER, SURFACE WATER, AND METHANE**

**OWL'S DEN LANDFILL
LINCOLN COUNTY
LINCOLNTON, NORTH CAROLINA**
S&ME Project No. 1356-07-006

Prepared for:

Lincoln County
5291 Crouse Road
Crouse, North Carolina 28033

Prepared by:



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A circular seal for the State of North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "LICENSED" at the bottom. The inner circle contains "SEAL" at the top and "2203" at the bottom. Along the bottom edge of the inner circle, the names "COURTNEY MURPHY" and "JULIE R. PETERSEN" are written. The entire seal is stamped over the signatures of Courtney W. Murphy and Julie R. Petersen.

July 03, 2012

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- Prepare one form for each individually monitored unit.
- Please type or print legibly.
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i)).
- In Accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Consultant - S&ME, INC.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Courtney Withers Murphy, P.G.

Phone: 704-523-4726

E-mail: cmurphy@smeinc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Owl's Den Landfill	Owl's Den Road, Lincolnton, NC	55-02 (closed)		April 19-20, 2012

Environmental Status: (Check all that apply)

Initial/Background Monitoring Detection Monitoring Assessment Monitoring Corrective Action

Type of data submitted: (Check all that apply)

<input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells	<input checked="" type="checkbox"/> Methane gas monitoring data
<input type="checkbox"/> Groundwater monitoring data from private water supply wells	<input type="checkbox"/> Corrective action data (specify) _____
<input type="checkbox"/> Leachate monitoring data	<input type="checkbox"/> Other(specify) _____
<input checked="" type="checkbox"/> Surface water monitoring data	

Notification attached?

- No. No groundwater or surface water standards or explosive methane gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Courtney W. Murphy, P.G.

Project Geologist

704-523-4726

Facility Representative Name (Print)

Courtney W. Murphy

Title

7-3-12

(Area Code) Telephone Number

Signature

Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

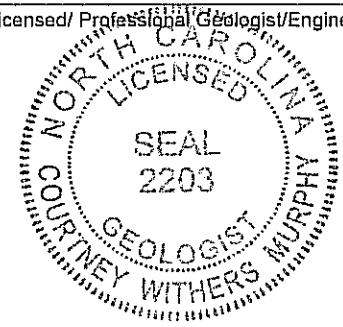


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1.0 INTRODUCTION

S&ME, Inc. (S&ME) was contracted by Lincoln County to provide groundwater, surface water, water supply well, and methane monitoring services at the Owl's Den Landfill located off Owl's Den Road in Lincolnton, North Carolina. This semi-annual monitoring event was conducted on April 19 and 20, 2012.

This report presents the results of the first semi-annual sampling event for the year 2012 at the facility, which included the sampling of one (1) background well (MW-1), ten (10) compliance wells (MW-2, MW-4, MW-5, MW-6, MW-6A, MW-7, MW-7A, MW-8, MW-9, and MW-10), and three (3) surface water locations (SW-1, SW-2 and SW-3). Please note that compliance well MW-3 has been removed from the site's monitoring plan due to expansion of the property boundary currently monitored by compliance wells MW-8 and MW-9. Compliance monitoring well MW-3 remains on-site for water level measurement purposes.

S&ME collected methane readings at seven (7) methane monitoring wells (MMW-2, MMW-4, MMW-5, MMW-6, MMW-7, MMW-8, and MMW-9). Please note that methane monitoring wells MMW-1 and MMW-3 have been removed from the site's monitoring plan. MMW-1 was replaced with MMW-7, and MMW-3 was replaced with MMW-5 and MMW-6.

S&ME collected three (3) surface water samples (SW-1, SW-2, and SW-3). Surface water sample location SW-1 represents an upstream surface water sample for the site.

The next sampling event is scheduled for October 2012.

2.0 GROUNDWATER LEVELS AND FLOW DATA

The water table elevations and our interpretation of the groundwater surface expressed as a potentiometric map along with groundwater flow direction are shown on *Figure 1*. Based upon the groundwater elevations in the vicinity of the landfill, groundwater in this area is projected to flow north-northwest toward the drainage features bordering the site on the west, north and east of the property. Groundwater levels for the monitoring wells are presented in *Table 1*.

The hydraulic gradient (*i*) in the vicinity of each well was determined by calculating the vertical difference between the groundwater elevation at each well and one or more nearby contour lines from the Groundwater Elevation Map. This value was then divided by the distance measured from the well to the selected groundwater elevation contour line. Groundwater velocity was calculated by multiplying the gradient (*i*) by the hydraulic conductivity (*k*) and dividing by the estimated effective porosity (*n*) of the aquifer. *Table 2* summarizes the groundwater flow velocities for the monitoring wells.

3.0 ANALYTICAL DATA

Analytical results for the landfill monitoring wells and surface water locations are summarized in **Tables 3** and **4**. Detections above their respective groundwater or surface water Standards are highlighted in grey. Well sampling logs containing field measurements of pH, conductivity, temperature and water levels are included in **Appendix I**. The monitoring wells and surface water stations were sampled for volatile organics by EPA Method 8260B and for the RCRA metals.

3.1 Monitoring Well Sampling

3.1.1 Volatile Organic Compounds (VOCs)

No volatile organic compounds (VOCs) were detected in the background monitoring well, MW-1, or monitoring wells MW-6 or MW-10.

Ten VOCs were detected in monitoring well MW-2. Of the ten constituents detected, one was detected at a level at or above its respective NCAC 2L .0202 Groundwater Quality Standard (2L Standard) and/or respective SW GWP Standard (1,2-Dichloropropane).

Eleven VOCs were detected in monitoring well MW-4. Of the eleven constituents detected, four were detected at levels at or above their respective 2L Standard and/or respective SW GWP Standard (1,4-Dichlorobenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, and Benzene).

One VOC was detected in monitoring well MW-5 at a concentration below its respective 2L Standard and/or respective SW GWP Standard.

Three VOCs were detected in monitoring well MW-6A, none of which were detected at or above their respective 2L Standard and/or respective SW GWP Standard.

Nine VOCs were detected in monitoring well MW-7, none of which were detected at or above their respective 2L Standard and/or respective SW GWP Standard.

Nine VOCs were detected in monitoring well MW-7A, none of which were detected at or above their respective 2L Standard and/or respective SW GWP Standard.

Five VOCs were detected in monitoring well MW-8, none of which were detected at/or above their respective 2L Standard and/or respective SW GWP Standard.

Two VOCs were detected in monitoring well MW-9, one of which was detected at/or above its respective 2L Standard and/or respective SW GWP Standard (Tetrachloroethene).

3.1.2 Metals

Arsenic was detected in monitoring well MW-10 at a concentration of 2.81 J micrograms per liter ($\mu\text{g}/\text{L}$), which is below its 2L Standard of 50 $\mu\text{g}/\text{L}$.

Barium was detected in each of the eleven monitoring wells, including the background monitoring well MW-1, at concentrations ranging from 91.4 to 645 $\mu\text{g}/\text{L}$, which are below the 2L Standard of 700 $\mu\text{g}/\text{L}$.

Cadmium was detected in monitoring wells MW-2, MW-7, and MW-9. Cadmium was detected above its 2L Standard of 2 $\mu\text{g}/\text{L}$ in monitoring well MW-7 which had a concentration of 3.47 $\mu\text{g}/\text{L}$.

Chromium was detected in monitoring wells MW-2, MW-4, MW-6, MW-7, MW-9, and MW-10 at concentrations ranging from 2.17 J to 8.12 J $\mu\text{g}/\text{L}$, respectively, which are below the 2L Standard of 10 $\mu\text{g}/\text{L}$.

Lead was detected in monitoring wells MW-2, MW-4, and MW-9 at concentrations of 2.50 J, 1.91 J, and 2.93 J $\mu\text{g}/\text{L}$, respectively, which are below the 2L Standard of 15 $\mu\text{g}/\text{L}$.

Mercury was detected in monitoring well MW-9 at a concentration of 2.75 $\mu\text{g}/\text{L}$, which is above the 2L Standard of 1 $\mu\text{g}/\text{L}$.

Selenium was detected in the background monitoring well MW-1 at a concentration of 5.18 J $\mu\text{g}/\text{L}$, which is below the 2L Standard of 20 $\mu\text{g}/\text{L}$.

Silver was detected in monitoring wells MW-2 and MW-7 at concentrations of 2.94 J, and 3.93 J $\mu\text{g}/\text{L}$, respectively, which are below the 2L Standard of 20 $\mu\text{g}/\text{L}$.

Please note that the concentrations of metals in the monitoring wells fluctuate with time and may be due to suspended solids rather than actual dissolved metals.

No other metals were detected in the monitoring wells.

3.2 Surface Water Sampling

3.2.1 Volatile Organic Compounds (VOCs)

The volatile organic compound cis-1,2-Dichloroethene was detected at surface water sampling locations SW-2 and SW-3 at concentrations of 1.4 $\mu\text{g}/\text{L}$ and 0.57 J $\mu\text{g}/\text{L}$, respectively. The NCAC 2B Freshwater Standard for cis-1,2-Dichloroethene is 4,900 $\mu\text{g}/\text{L}$.

The volatile organic compound 1,1-Dichloroethane was detected at surface water sampling location SW-3 at a concentration of 0.64 J $\mu\text{g}/\text{L}$. The NCAC 2B Freshwater Standard for 1,1-Dichloroethane is 20,000 $\mu\text{g}/\text{L}$.

The volatile organic compound 1,4-Dichlorobenzene was detected at surface water sampling location SW-3 at a concentration of 0.54 J µg/L. The NCAC 2B Freshwater Standard for 1,4-Dichlorobenzene is 100 µg/L.

3.2.2 Metals

Barium was detected at surface water sampling locations SW-1, SW-2 and SW-3 at concentrations of 96.0, 186, and 256 µg/L, respectively. The NCAC 2B Freshwater Standard established for Barium is 200,000 µg/L.

Chromium was detected at surface water sampling location SW-1 at a concentration of 1.29 J µg/L. The NCAC 2B Freshwater Standard established for Chromium is 50 µg/L.

Lead was detected at surface water sampling location SW-1 at a concentration of 3.02 J µg/L. the NCAC 2B Freshwater Standard established for Lead is 25 µg/L.

No other metals were detected in the surface water samples.

4.0 METHANE READINGS

Methane readings were taken from the seven (7) methane monitoring wells (MMW-2, MMW-4, MMW-5, MMW-6, MMW-7, MMW-8, and MMW-9) during the April 2012 semi-annual monitoring event. Percent methane levels ranged from zero (MMW-6, MMW-7, MMW-8, and MMW-9) to 66.2 in MMW-4. Please note that methane monitoring wells MMW-2 and MMW-4 were above the methane lower explosive limit of 5%. **Table 5** summarizes the data collected.

TABLES

Table 1
April 2012 - Water Level Elevations
Lincolnton, North Carolina
Lincoln County Owl's Den Landfill
S&ME Project No. 1356-07-006

Well Identification		Ground Surface Elevation (ft - MSL)	Top of Casing Elevation (ft - MSL)	Depth to Groundwater From Top of Casing (ft)	Groundwater Elevation (ft - MSL)
Background Well	MW-1	863.20	865.69	37.14	828.55
Compliance Well	MW-2	822.50	824.96	25.40	799.56
Observation Well	MW-3	870.20	872.60	43.88	828.72
Compliance Well	MW-4	831.80	833.90	39.92	793.98
Compliance Well	MW-5	835.90	839.10	26.31	812.79
Compliance Well	MW-6	805.44	808.55	16.20	792.35
Compliance Well	MW-6A	805.17	808.61	18.21	790.40
Compliance Well	MW-7	815.47	818.44	22.91	795.53
Compliance Well	MW-7A	814.68	817.48	21.49	795.99
Compliance Well	MW-8	878.23	881.21	51.18	830.03
Compliance Well	MW-9	882.19	884.94	53.07	831.87
Compliance Well	MW-10	864.33	867.11	44.76	822.35

Notes:

(ft - MSL) - Feet Mean Sea Level

(ft) - Feet

The "A" suffix on the well locations indicates the deep well of the pair.

Table 2
April 2012 - Groundwater Flow Velocity
Lincoln County Owl's Den Landfill
S&ME Project No. 1356-07-006

Well Identification	Hydraulic Conductivity (K) ft/yr	Effective Porosity (n ^e) %	Hydraulic Gradient (i) ft/ft	Seepage Velocity (v) ft/yr
MW-1	4.3E+02	0.20	0.02	43
MW-2	2.6E+03	0.28	0.05	471
MW-3	9.8E+02	0.33	0.02	60
MW-4	1.3E+03	0.30	0.04	177
MW-5	6.2E+02	0.27	0.03	69
MW-6	4.2E+02	0.29	0.02	29
MW-7	2.1E+02	0.30	0.05	35
MW-8	5.6E+02	0.28	0.01	20
MW-9	1.3E+03	0.31	0.02	86
MW-10	9.5E+02	0.31	0.02	61

Notes:

-
- (1) Hydraulic Conductivity was calculated from slug tests performed after well construction.
 - (2) Effective porosity was estimated from soils collected within the saturated portion of screen interval during well construction.
 - (3) Hydraulic gradient calculated by measuring linear feet between selected contour intervals.
 - (4) Seepage velocity $v = (K \cdot i) / n^e$

Table 3
April 2012 - Detected Analytes in Groundwater Monitor Wells
Lincoln County Owl's Den Landfill
Lincolnton, North Carolina
S&ME Project No. 1356-07-006

EPA Volatile Organic Compounds Method 8260B (ug/L)	NCDENR SWSL	15A NCAC 2L	Solid Waste GWP ST	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-8	MW-9	MW-10
1,1-Dichloroethane	5	6	NE		2.4		2.0			1.1	0.63 J	0.88 J	0.72 J	0.45 J	
1,2-Dichlorobenzene	5	20	NE		0.71 J		3.3			0.49 J	0.57 J	0.44 J			
1,2-Dichloroethane	1	0.4	NE				1.2								
1,2-Dichloropropane	1	0.6	NE		0.98 J		0.68 J								
1,3-Dichlorobenzene	5	200	NE		0.40 J		0.87 J			0.48 J	0.52 J				
1,4-Dichlorobenzene	1	6	NE		5.4		12			5.5	3.6	0.58 J			
2-Chlorotoluene	NE	100	NE		1.7		1.2			1.1	0.70 J	3.4			
Benzene	1	1	NE		0.87 J		1.7			0.88 J	0.55 J				
Chlorobenzene	3	50	NE		5.0		11		1.3	3.9	2.9				
Chloroethane	10	3,000	NE				2.6			1.6	3.8	1.1			
cis-1,2-Dichloroethene	5	70	NE		4.1		0.57 J			0.69 J					
Isopropylbenzene	NE	70	NE					0.45 J					1.4		
Methyl-tert-Butyl Ether	NE	20	NE		1.4							1.5			
Tetrachloroethylene	1	0.7	NE												
Trichloroethylene	1	3	NE												
Xylenes (total)	5	500	NE									1.1 J			
EPA RCRA Metals Method 6010B (ug/L)	NCDENR SWSL	15A NCAC 2L	Solid Waste GWP ST	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-8	MW-9	MW-10
Arsenic	10	50	NE												2.81 J
Barium	100	700	NE	144	645		602	91.4	165	378	615	411	205	302	118
Cadmium	1	2	NE		1.93					3.47				0.447 J	
Chromium	10	10	NE		7.12 J		3.08 J		2.17 J		8.12 J			2.98 J	2.42 J
Lead	10	15	NE		2.50 J		1.91 J							2.93 J	
Mercury	0.2	1	NE											2.75	
Selenium	10	20	NE	5.18 J											
Silver	10	20	NE		2.94 J						3.93 J				

Notes:

(1) ug/L = micrograms per liter (parts per billion)

(2) 15A NCAC 2L = North Carolina Groundwater Quality Standards

(3) GWP ST = Solid Waste Groundwater Protection Standard

(4) NE = No established standard

(5) Bold and highlighted indicates above 15A NCAC 2L or GWP ST

(6) J = Analyte was detected between the method detection limit (MDL) and the method reporting limit (MRL)

(7) Target analytes not shown were reported as below detection limits

(8) SWSL = North Carolina Department of Environment and Natural Resources Solid Waste Section Limit established in 2007

(9) B = Analyte was detected in associated method blank

Table 4
April 2012 - Detected Analytes in Surface Water Samples
Lincoln County Owl's Den Landfill
Lincolnton, North Carolina
S&ME Project No. 1356-07-006

EPA Volatile Organic Compounds Method 8260B (ug/L)	15A NCAC 2B	SW-1	SW-2	SW-3
1,1- Dichloroethane	20,000			0.64 J
1,4 - Dichlorobenzene	100			0.54 J
cis-1,2-Dichloroethene	4,900		1.4	0.57 J
EPA RCRA Metals Method 6010B (ug/L)				
Barium	200,000	96.0	186	256
Chromium	50	1.29 J		
Lead	25	3.02 J		

Notes:

-
- (1) ug/L = micrograms per liter (parts per billion)
 - (2) 15A NCAC 2B = North Carolina Surface Water Quality Standards for Freshwater
 - (3) NE = No established standard
 - (4) Bold indicates above 15A NCAC 2B
 - (5) J = Analyte was detected between the method detection limit (MDL) and the method reporting limit (MRL)
 - (6) Target analytes not shown were reported as below detection limits

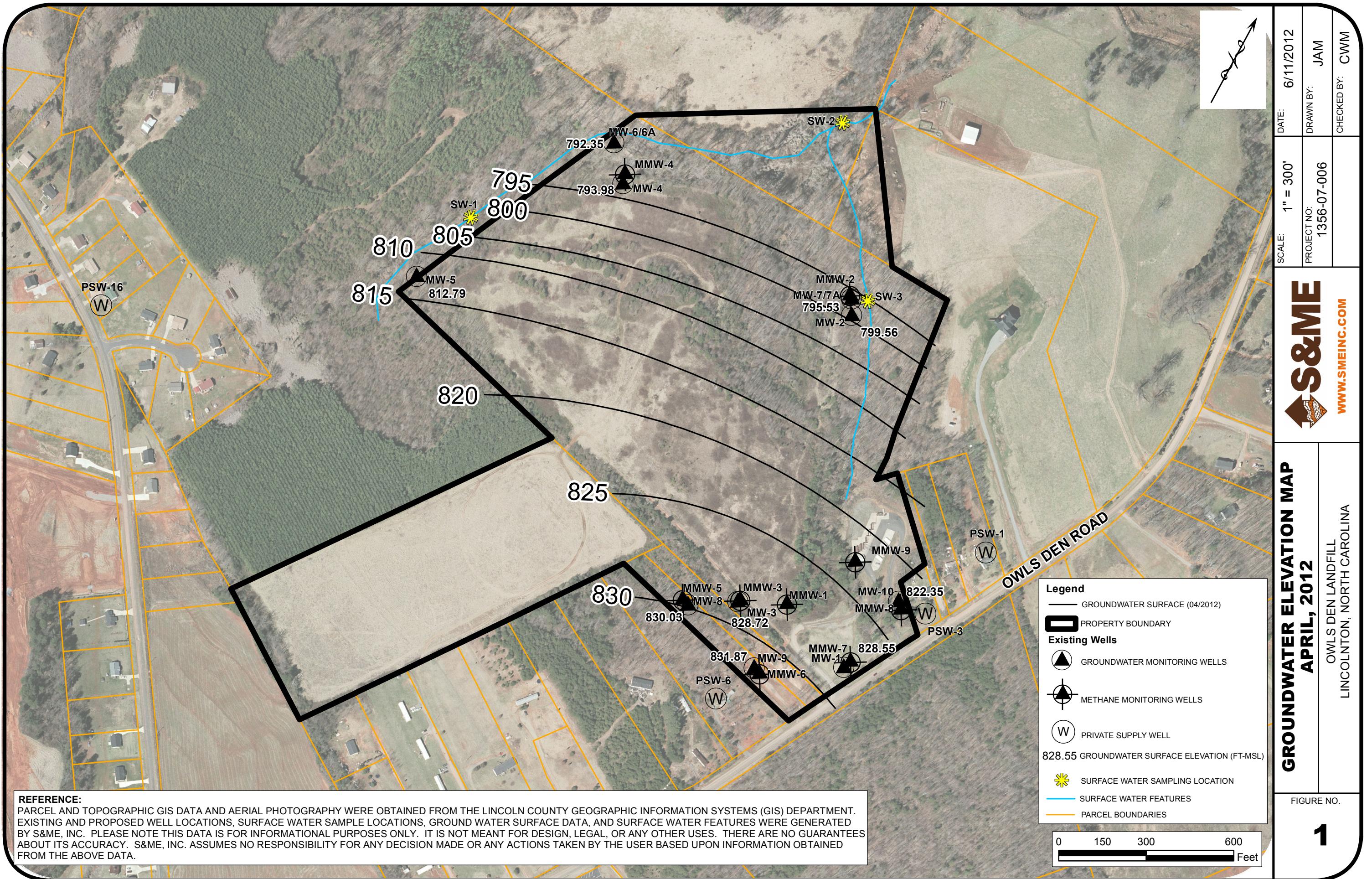
Table 5
April 2012 - Methane Readings in Methane Monitor Wells
Lincoln County Owl's Den Landfill
Lincolnton, North Carolina
S&ME Project No. 1356-07-006

Methane Well Identification	Percent Methane	Percent Lower Explosive Limit
MMW-1	Omitted From Monitoring Plan in 2008	
MMW-2	8.9	178
MMW-3	Omitted From Monitoring Plan in 2008	
MMW-4	66.2	1,324
MMW-5	4.5	90
MMW-6	0	0
MMW-7	0	0
MMW-8	0	0
MMW-9	0	0

Notes:

Bold indicates concentrations at or above the Lower Explosive Limit of 5% Methane

FIGURES



APPENDIX I
FIELD SAMPLING LOGS AND LABORATORY REPORTS

Surface Water Samples and Methane Readings
 Owl's Den Landfill
 S&ME Project 1356-07-006



Location	Date	Time Sampled	Sample Observations
SW-1	4/20/2012	1010	clear
SW-2	4/20/2012	1130	clear
SW-3	4/20/2012	1145	clear

Location	Date	Time Sampled	Comments
PSW-1			
PSW-3			
PSW-4			ABANDONED
PSW-5			ABANDONED
PSW-6			
PSW-16			

Location	% LEL	% Gas	Reading Date	Reading Time
MMW-1	<i>Omitted from plan in 2008</i>			
MMW-2	178	8.9	4/20/2012	1105
MMW-3	<i>Omitted from plan in 2008</i>			
MMW-4	1,324	66.2	4/20/2012	1032
MMW-5	90	4.5	4/20/2012	0945
MMW-6	0	0	4/20/2012	0940
MMW-7	0	0	4/20/2012	0910
MMW-8	0	0	4/20/2012	0930
MMW-9	0	0	4/20/2012	0935

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006



Well ID MW-1

Sampling Personnel (1) Brian Wilson (2) Courtney Murphy
Weather Conditions Cloudy/Warm
Unusual Site Conditions _____

Water Level Data

Measuring Point Location TOC Well Casing Volume 1.8
Depth to Water (ft) 37.14
Depth to Base of Well (ft) 47.5 (well casing volume = water column*0.174)
Water Column (ft) 10.4
Equipment Used to Measure Depths Electronic Water Level Probe

Well Purging Data

Date 4/19/2012 Purging Equipment Disposable Teflon Bailer

	Total Volume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	0906	5.60	16.9	0.0
	1.8	0910	5.65	16.7	0.0
	3.6	0914	5.63	16.7	0.0
Final	5.4	0920	5.64	16.7	0.0

Well Sampling Data

Sampling Date 4/20/2012
Sampling Time 0910
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments Specific Conductivity not registering on meter
Lab ENCO

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006



Well ID MW-2

Sampling Personnel (1) Brian Wilson (2) Courtney Murphy
Weather Conditions Cloudy/Warm
Unusual Site Conditions _____

Water Level Data

Measuring Point Location TOC Well Casing Volume 2.6
Depth to Water (ft) 25.4
Depth to Base of Well (ft) 40.5 (well casing volume = water column*0.174)
Water Column (ft) 15.1
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/19/2012 Purging Equipment Field Cleaned Whale Pump

	Total Volume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	1412	6.33	19.2	0.0
	2.6	1413	6.25	19.3	0.0
	5.3	1414	6.21	18.8	0.0
Final	7.9	1415	6.17	18.4	0.0

Well Sampling Data

Sampling Date 4/20/2012
Sampling Time 1115
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments Specific Conductivity not registering on meter
Lab ENCO

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006



Well ID MW-3

Sampling Personnel (1)	Brian Wilson	(2)	Courtney Murphy
Weather Conditions	Cloudy/Warm		
Unusual Site Conditions			

Water Level Data

Measuring Point Location	TOC	Well Casing Volume	
Depth to Water (ft)	43.88		
Depth to Base of Well (ft)	50.4	(well casing volume = water column*0.174)	
Water Column (ft)			
Equipment Used to Measure Depths		Electric Water Level Probe	

Well Purging Data

Date 4/19/2012 Purgung Equipment

	Total Voume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0				
Final					

Well Sampling Data

Sampling Date 4/20/2012
Sampling Time
Sampling Equipment
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation

Comments Specific Conductivity not registering on meter
Lab

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006



Well ID MW-4

Sampling Personnel (1) Brian Wilson (2) Courtney Murphy
Weather Conditions Cloudy/Warm
Unusual Site Conditions _____

Water Level Data

Measuring Point Location TOC Well Casing Volume 3.0
Depth to Water (ft) 39.92
Depth to Base of Well (ft) 57.1 (well casing volume = water column*0.174)
Water Column (ft) 17.18
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/19/2012 Purging Equipment Field Cleaned Whale Pump

	Total Volume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	1324	6.61	23.8	0.0
	3.0	1326	6.58	24.6	0.0
	6.0	1328	6.51	25.6	0.0
Final	9.0	1330	6.49	25.2	0.0

Well Sampling Data

Sampling Date 4/20/2012
Sampling Time 1030
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments Specific Conductivity not registering on meter; temp appears high also
Lab ENCO

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006



Well ID MW-5

Sampling Personnel (1) Brian Wilson (2) Courtney Murphy
Weather Conditions Cloudy/Warm
Unusual Site Conditions _____

Water Level Data

Measuring Point Location TOC Well Casing Volume 1.2
Depth to Water (ft) 26.31
Depth to Base of Well (ft) 33.2 (well casing volume = water column*0.174)
Water Column (ft) 6.89
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/19/2012 Purging Equipment Disposable Teflon Bailer

	Total Volume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	1035	6.04	15.8	0.0
	1.2	1039	6.05	16.0	0.0
	2.4	1041	6.00	16.0	0.0
Final	3.6	1043	6.01	16.0	0.0

Well Sampling Data

Sampling Date 4/20/2012
Sampling Time 1000
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments Specific Conductivity not registering on meter
Lab ENCO

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006



Well ID MW-6

Sampling Personnel (1) Brian Wilson (2) Courtney Murphy
Weather Conditions Cloudy/Warm
Unusual Site Conditions _____

Water Level Data

Measuring Point Location TOC Well Casing Volume 1.4
Depth to Water (ft) 16.20
Depth to Base of Well (ft) 24.11 (well casing volume = water column*0.174)
Water Column (ft) 7.91
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/19/2012 Purging Equipment Disposable Teflon Bailer

	Total Volume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	1100	6.90	17.0	0.0
	1.4	1105	6.65	17.1	0.0
	2.8	1108	6.63	16.9	0.0
Final	4.1	1111	6.60	16.7	0.0

Well Sampling Data

Sampling Date 4/20/2012
Sampling Time 1040
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments Specific Conductivity not registering on meter
Lab ENCO

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006



Well ID MW-6A

Sampling Personnel (1) Brian Wilson (2) Courtney Murphy
Weather Conditions Cloudy/Warm
Unusual Site Conditions _____

Water Level Data

Measuring Point Location TOC Well Casing Volume 7.0
Depth to Water (ft) 18.21
Depth to Base of Well (ft) 58.44 (well casing volume = water column*0.174)
Water Column (ft) 40.23
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/19/2012 Purging Equipment Field Cleaned Whale Pump

	Total Volume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	1100	7.20	17.2	0.0
	7.0	1107	6.88	17.0	0.0
	14.0	1114	6.72	16.2	0.0
Final	21.0	1120	6.74	16.4	0.0

Well Sampling Data

Sampling Date 4/20/2012
Sampling Time 1042
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments Specific Conductivity not registering on meter
Lab ENCO

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006



Well ID MW-7

Sampling Personnel (1) Brian Wilson (2) Courtney Murphy
Weather Conditions Cloudy/Warm
Unusual Site Conditions _____

Water Level Data

Measuring Point Location TOC Well Casing Volume 0.9
Depth to Water (ft) 22.91
Depth to Base of Well (ft) 27.97 (well casing volume = water column*0.174)
Water Column (ft) 5.06
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/19/2012 Purging Equipment Disposable Teflon Bailer

	Total Volume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	1356	6.35	19.6	0.0
	0.9	1357	6.36	19.4	0.0
	1.8	1358	6.32	19.1	0.0
Final	2.6	1359	6.33	18.9	0.0

Well Sampling Data

Sampling Date 4/20/2012
Sampling Time 1105
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments Specific Conductivity not registering on meter; broken hinge
Lab ENCO

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006



Well ID MW-7A

Sampling Personnel (1) Brian Wilson (2) Courtney Murphy
Weather Conditions Cloudy/Warm
Unusual Site Conditions _____

Water Level Data

Measuring Point Location TOC Well Casing Volume 5.7
Depth to Water (ft) 21.49
Depth to Base of Well (ft) 54.3 (well casing volume = water column*0.174)
Water Column (ft) 32.81
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/19/2012 Purging Equipment Field Cleaned Whale Pump

	Total Volume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	1351	6.51	20.0	0.0
	5.7	1355	6.71	19.7	0.0
	-	-	-	-	-
Final	-	-	-	-	-

Well Sampling Data

Sampling Date 4/20/2012
Sampling Time 1110
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments Specific Conductivity not registering on meter; Purged dry at 6 gal
Lab ENCO

Project Name: Owl's Den Landfill Assessment
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006



Well ID MW-8

Sampling Personnel (1) Brian Wilson (2) Courtney Murphy
Weather Conditions Cloudy/Warm
Unusual Site Conditions _____

Water Level Data

Measuring Point Location TOC Well Casing Volume 1.0
Depth to Water (ft) 51.18
Depth to Base of Well (ft) 56.8 (well casing volume = water column*0.174)
Water Column (ft) 5.6
Equipment Used to Measure Depths Electronic Water Level Probe

Well Purging Data

Date 4/19/2012 Purging Equipment Disposable Teflon Bailer

	Total Volume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	1000	5.58	15.8	0.0
	1.0	1003	5.63	15.9	0.0
	2.0	1005	5.60	15.9	0.0
Final	2.9	1007	5.56	15.9	0.0

Well Sampling Data

Sampling Date 4/20/2012
Sampling Time 0945
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments Specific Conductivity not registering on meter
Lab ENCO

Project Name: Owl's Den Landfill Assessment
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006



Well ID MW-9

Sampling Personnel (1) Brian Wilson (2) Courtney Murphy
Weather Conditions Cloudy/Warm
Unusual Site Conditions _____

Water Level Data

Measuring Point Location TOC Well Casing Volume 2.0
Depth to Water (ft) 53.07
Depth to Base of Well (ft) 64.28 (well casing volume = water column*0.174)
Water Column (ft) 11.2
Equipment Used to Measure Depths Electronic Water Level Probe

Well Purging Data

Date 4/19/2012 Purging Equipment Disposable Teflon Bailer

	Total Volume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	0940	5.90	14.6	0.0
	2.0	0944	5.97	15.4	0.0
	3.9	0949	6.06	15.7	0.0
Final	-	0955	-	-	-

Well Sampling Data

Sampling Date 4/20/2012
Sampling Time 0940
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments Specific Conductivity not registering on meter; Purged dry at 5 gal
Lab ENCO

Project Name: Owl's Den Landfill Assessment
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006



Well ID MW-10

Sampling Personnel (1) Brian Wilson (2) Courtney Murphy
Weather Conditions Cloudy/Warm
Unusual Site Conditions _____

Water Level Data

Measuring Point Location TOC Well Casing Volume 1.1
Depth to Water (ft) 44.76
Depth to Base of Well (ft) 50.96 (well casing volume = water column*0.174)
Water Column (ft) 6.2
Equipment Used to Measure Depths Electronic Water Level Probe

Well Purging Data

Date 4/19/2012 Purging Equipment Disposable Teflon Bailer

	Total Volume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	0925	5.87	14.9	0.0
	1.1	0927	6.06	15.0	0.0
	2.2	0929	6.03	14.7	0.0
Final	3.0	0931	6.04	14.7	0.0

Well Sampling Data

Sampling Date 4/20/2012
Sampling Time 0935
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments Specific Conductivity not registering on meter; Purged dry at 3 gal
Lab ENCO

Environmental Conservation Laboratories, Inc.

102-A Woodwinds Industrial Court

Cary NC, 27511

Phone: 919.467.3090 FAX: 919.467.3515



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Thursday, May 3, 2012

S&ME, Inc. (SM002)

Attn: Courtney Murphy

9751 Southern Pine Blvd.

Charlotte, NC 28273

RE: Laboratory Results for

Project Number: 1356-07-006, Project Name/Desc: Owl's Den LF - Groundwater

ENCO Workorder(s): C203836

Dear Courtney Murphy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, April 24, 2012.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads "Chuck Smith".

Chuck Smith

Project Manager

Enclosure(s)

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-1		Lab ID: C203836-01	Sampled: 04/20/12 09:10	Received: 04/24/12 08:15
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
EPA 6010C	10/17/12	04/24/12 09:48	4/26/2012 11:20	
EPA 7470A	05/18/12	04/24/12 13:13	4/25/2012 09:41	
EPA 8260B	05/04/12	05/02/12 10:35	5/2/2012 20:50	

Client ID: MW-2		Lab ID: C203836-02	Sampled: 04/20/12 11:15	Received: 04/24/12 08:15
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
EPA 6010C	10/17/12	04/24/12 09:48	4/26/2012 11:30	
EPA 7470A	05/18/12	04/24/12 13:13	4/25/2012 09:48	
EPA 8260B	05/04/12	05/02/12 10:35	5/2/2012 21:19	

Client ID: MW-4		Lab ID: C203836-03	Sampled: 04/20/12 10:30	Received: 04/24/12 08:15
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
EPA 6010C	10/17/12	04/24/12 09:48	4/26/2012 11:33	
EPA 7470A	05/18/12	04/24/12 13:13	4/25/2012 09:23	
EPA 8260B	05/04/12	05/02/12 10:35	5/2/2012 21:49	

Client ID: MW-5		Lab ID: C203836-04	Sampled: 04/20/12 10:00	Received: 04/24/12 08:15
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
EPA 6010C	10/17/12	04/24/12 09:48	4/26/2012 11:42	
EPA 7470A	05/18/12	04/24/12 13:13	4/25/2012 09:50	
EPA 8260B	05/04/12	05/02/12 10:35	5/2/2012 22:18	

Client ID: MW-6		Lab ID: C203836-05	Sampled: 04/20/12 10:40	Received: 04/24/12 08:15
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
EPA 6010C	10/17/12	04/24/12 09:48	4/26/2012 11:44	
EPA 7470A	05/18/12	04/24/12 13:13	4/25/2012 09:52	
EPA 8260B	05/04/12	05/02/12 10:35	5/2/2012 22:48	

Client ID: MW-6A		Lab ID: C203836-06	Sampled: 04/20/12 10:42	Received: 04/24/12 08:15
Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)	
EPA 6010C	10/17/12	04/24/12 09:48	4/26/2012 11:46	
EPA 7470A	05/18/12	04/24/12 13:13	4/25/2012 09:54	
EPA 8260B	05/04/12	05/02/12 10:57	5/3/2012 04:13	



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Client ID:	MW-7	Lab ID:	C203836-07	Sampled:	04/20/12 11:05	Received:	04/24/12 08:15
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C		10/17/12		04/24/12	09:48	4/26/2012	11:49
EPA 7470A		05/18/12		04/24/12	13:13	4/25/2012	10:07
EPA 8260B		05/04/12		05/02/12	10:57	5/3/2012	04:43

Client ID:	MW-7A	Lab ID:	C203836-08	Sampled:	04/20/12 11:10	Received:	04/24/12 08:15
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C		10/17/12		04/24/12	09:48	4/26/2012	11:51
EPA 7470A		05/18/12		04/24/12	13:13	4/25/2012	10:10
EPA 8260B		05/04/12		05/02/12	10:57	5/3/2012	05:12

Client ID:	MW-8	Lab ID:	C203836-09	Sampled:	04/20/12 09:45	Received:	04/24/12 08:15
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C		10/17/12		04/24/12	09:48	4/26/2012	11:53
EPA 7470A		05/18/12		04/24/12	13:13	4/25/2012	10:12
EPA 8260B		05/04/12		05/02/12	10:57	5/3/2012	05:42

Client ID:	MW-9	Lab ID:	C203836-10	Sampled:	04/20/12 09:40	Received:	04/24/12 08:15
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C		10/17/12		04/24/12	09:48	4/26/2012	11:56
EPA 7470A		05/18/12		04/24/12	13:13	4/25/2012	10:14
EPA 8260B		05/04/12		05/02/12	10:57	5/3/2012	06:11

Client ID:	MW-10	Lab ID:	C203836-11	Sampled:	04/20/12 09:35	Received:	04/24/12 08:15
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C		10/17/12		04/24/12	09:48	4/26/2012	11:58
EPA 7470A		05/18/12		04/24/12	13:13	4/25/2012	10:16
EPA 8260B		05/04/12		05/02/12	10:57	5/3/2012	06:41

Client ID:	Trip Blank	Lab ID:	C203836-12	Sampled:	04/20/12 09:35	Received:	04/24/12 08:15
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8260B		05/04/12		05/02/12	10:57	5/3/2012	07:11

SAMPLE DETECTION SUMMARY

Client ID: MW-1		Lab ID: C203836-01						
Analyte		Results	Flag	MDL	PQL	Units	Method	Notes
Barium - Total		144		1.00	10.0	ug/L	EPA 6010C	
Selenium - Total		5.18	J	2.70	10.0	ug/L	EPA 6010C	

Client ID: MW-2		Lab ID: C203836-02						
Analyte		Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane		2.4		0.13	1.0	ug/L	EPA 8260B	
1,2-Dichlorobenzene		0.71	J	0.19	1.0	ug/L	EPA 8260B	
1,2-Dichloropropane		0.98	J	0.10	1.0	ug/L	EPA 8260B	
1,3-Dichlorobenzene		0.40	J	0.15	1.0	ug/L	EPA 8260B	
1,4-Dichlorobenzene		5.4		0.19	1.0	ug/L	EPA 8260B	
2-Chlorotoluene		1.7		0.081	1.0	ug/L	EPA 8260B	
Barium - Total		645		1.00	10.0	ug/L	EPA 6010C	
Benzene		0.87	J	0.15	1.0	ug/L	EPA 8260B	
Cadmium - Total		1.93		0.360	1.00	ug/L	EPA 6010C	
Chlorobenzene		5.0		0.17	1.0	ug/L	EPA 8260B	
Chromium - Total		7.12	J	1.00	10.0	ug/L	EPA 6010C	
cis-1,2-Dichloroethene		4.1		0.15	1.0	ug/L	EPA 8260B	
Lead - Total		2.50	J	1.90	10.0	ug/L	EPA 6010C	
Methyl-tert-Butyl Ether		1.4		0.16	1.0	ug/L	EPA 8260B	
Silver - Total		2.94	J	1.90	10.0	ug/L	EPA 6010C	

Client ID: MW-4		Lab ID: C203836-03						
Analyte		Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane		2.0		0.13	1.0	ug/L	EPA 8260B	
1,2-Dichlorobenzene		3.3		0.19	1.0	ug/L	EPA 8260B	
1,2-Dichloroethane		1.2		0.21	1.0	ug/L	EPA 8260B	
1,2-Dichloropropane		0.68	J	0.10	1.0	ug/L	EPA 8260B	
1,3-Dichlorobenzene		0.87	J	0.15	1.0	ug/L	EPA 8260B	
1,4-Dichlorobenzene		12		0.19	1.0	ug/L	EPA 8260B	
2-Chlorotoluene		1.2		0.081	1.0	ug/L	EPA 8260B	
Barium - Total		602		1.00	10.0	ug/L	EPA 6010C	
Benzene		1.7		0.15	1.0	ug/L	EPA 8260B	
Chlorobenzene		11		0.17	1.0	ug/L	EPA 8260B	
Chloroethane		2.6		0.23	1.0	ug/L	EPA 8260B	
Chromium - Total		3.08	J	1.00	10.0	ug/L	EPA 6010C	
Isopropylbenzene		0.57	J	0.14	1.0	ug/L	EPA 8260B	
Lead - Total		1.91	J	1.90	10.0	ug/L	EPA 6010C	

Client ID: MW-5		Lab ID: C203836-04						
Analyte		Results	Flag	MDL	PQL	Units	Method	Notes
Barium - Total		91.4		1.00	10.0	ug/L	EPA 6010C	
Tetrachloroethene		0.45	J	0.17	1.0	ug/L	EPA 8260B	

Client ID: MW-6		Lab ID: C203836-05						
Analyte		Results	Flag	MDL	PQL	Units	Method	Notes
Barium - Total		165		1.00	10.0	ug/L	EPA 6010C	
Chromium - Total		2.17	J	1.00	10.0	ug/L	EPA 6010C	

Client ID: MW-6A		Lab ID: C203836-06						
Analyte		Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane		1.1		0.13	1.0	ug/L	EPA 8260B	
1,2-Dichlorobenzene		0.49	J	0.19	1.0	ug/L	EPA 8260B	
Barium - Total		378		1.00	10.0	ug/L	EPA 6010C	
Chlorobenzene		1.3		0.17	1.0	ug/L	EPA 8260B	

Client ID: MW-7		Lab ID: C203836-07						
Analyte		Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane		0.63	J	0.13	1.0	ug/L	EPA 8260B	
1,2-Dichlorobenzene		0.57	J	0.19	1.0	ug/L	EPA 8260B	
1,3-Dichlorobenzene		0.48	J	0.15	1.0	ug/L	EPA 8260B	
1,4-Dichlorobenzene		5.5		0.19	1.0	ug/L	EPA 8260B	
2-Chlorotoluene		1.1		0.081	1.0	ug/L	EPA 8260B	
Barium - Total		615		1.00	10.0	ug/L	EPA 6010C	
Benzene		0.88	J	0.15	1.0	ug/L	EPA 8260B	
Cadmium - Total		3.47		0.360	1.00	ug/L	EPA 6010C	
Chlorobenzene		3.9		0.17	1.0	ug/L	EPA 8260B	
Chromium - Total		8.12	J	1.00	10.0	ug/L	EPA 6010C	
cis-1,2-Dichloroethene		1.6		0.15	1.0	ug/L	EPA 8260B	
Methyl-tert-Butyl Ether		0.69	J	0.16	1.0	ug/L	EPA 8260B	
Silver - Total		3.93	J	1.90	10.0	ug/L	EPA 6010C	

Client ID: MW-7A		Lab ID: C203836-08						
Analyte		Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane		0.88	J	0.13	1.0	ug/L	EPA 8260B	
1,2-Dichlorobenzene		0.44	J	0.19	1.0	ug/L	EPA 8260B	
1,3-Dichlorobenzene		0.52	J	0.15	1.0	ug/L	EPA 8260B	
1,4-Dichlorobenzene		3.6		0.19	1.0	ug/L	EPA 8260B	
2-Chlorotoluene		0.70	J	0.081	1.0	ug/L	EPA 8260B	
Barium - Total		411		1.00	10.0	ug/L	EPA 6010C	
Benzene		0.55	J	0.15	1.0	ug/L	EPA 8260B	
Chlorobenzene		2.9		0.17	1.0	ug/L	EPA 8260B	
cis-1,2-Dichloroethene		3.8		0.15	1.0	ug/L	EPA 8260B	
Trichloroethylene		1.5		0.15	1.0	ug/L	EPA 8260B	

Client ID: MW-8		Lab ID: C203836-09						
Analyte		Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane		0.72	J	0.13	1.0	ug/L	EPA 8260B	
1,4-Dichlorobenzene		0.58	J	0.19	1.0	ug/L	EPA 8260B	
2-Chlorotoluene		3.4		0.081	1.0	ug/L	EPA 8260B	
Barium - Total		205		1.00	10.0	ug/L	EPA 6010C	
cis-1,2-Dichloroethene		1.1		0.15	1.0	ug/L	EPA 8260B	
Xylenes (Total)		1.1	J	0.45	3.0	ug/L	EPA 8260B	

Client ID: MW-9		Lab ID: C203836-10						
Analyte		Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane		0.45	J	0.13	1.0	ug/L	EPA 8260B	
Barium - Total		302		1.00	10.0	ug/L	EPA 6010C	
Cadmium - Total		0.447	J	0.360	1.00	ug/L	EPA 6010C	
Chromium - Total		2.98	J	1.00	10.0	ug/L	EPA 6010C	
Lead - Total		2.93	J	1.90	10.0	ug/L	EPA 6010C	
Mercury - Total		2.75		0.170	0.200	ug/L	EPA 7470A	



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Client ID: MW-9		Lab ID: C203836-10					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Tetrachloroethene	1.4		0.17	1.0	ug/L	EPA 8260B	

Client ID: MW-10		Lab ID: C203836-11					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	2.81	J	2.80	10.0	ug/L	EPA 6010C	
Barium - Total	118		1.00	10.0	ug/L	EPA 6010C	
Chromium - Total	2.42	J	1.00	10.0	ug/L	EPA 6010C	

ANALYTICAL RESULTS

Description: MW-1

Lab Sample ID: C203836-01

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 09:10

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.012	U	ug/L	1	0.012	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.10	U	ug/L	1	0.10	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.30	U	ug/L	1	0.30	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
2-Chlorotoluene [95-49-8] ^	0.081	U	ug/L	1	0.081	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
4-Chlorotoluene [106-43-4] ^	0.068	U	ug/L	1	0.068	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
4-Isopropyltoluene [99-87-6] ^	0.085	U	ug/L	1	0.085	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Bromobenzene [108-86-1] ^	0.16	U	ug/L	1	0.16	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	

Description: MW-1

Lab Sample ID: C203836-01

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 09:10

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Isopropylbenzene [98-82-8] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.16	U	ug/L	1	0.16	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
n-Butyl Benzene [104-51-8] ^	0.058	U	ug/L	1	0.058	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
n-Propyl Benzene [103-65-1] ^	0.12	U	ug/L	1	0.12	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
sec-Butylbenzene [135-98-8] ^	0.10	U	ug/L	1	0.10	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
tert-Butylbenzene [98-06-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	2E02016	EPA 8260B	05/02/12 20:50	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	47	1	50.0	93 %	51-122	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Dibromofluoromethane	47	1	50.0	94 %	68-117	2E02016	EPA 8260B	05/02/12 20:50	JKG	
Toluene-d8	48	1	50.0	95 %	67-127	2E02016	EPA 8260B	05/02/12 20:50	JKG	

Description: MW-1

Lab Sample ID: C203836-01

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 09:10

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	2D20027	EPA 7470A	04/25/12 09:41	KER	

Description: MW-1**Lab Sample ID:** C203836-01**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 09:10**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals (total recoverable) by EPA 6000/7000 Series Methods**

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	2D24013	EPA 6010C	04/26/12 11:20	JDH	
Barium [7440-39-3] ^	144		ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:20	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	2D24013	EPA 6010C	04/26/12 11:20	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:20	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:20	JDH	
Selenium [7782-49-2] ^	5.18	J	ug/L	1	2.70	10.0	2D24013	EPA 6010C	04/26/12 11:20	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:20	JDH	

Description: MW-2

Lab Sample ID: C203836-02

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 11:15

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,1-Dichloroethane [75-34-3] ^	2.4		ug/L	1	0.13	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.012	U	ug/L	1	0.012	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.10	U	ug/L	1	0.10	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.71	J	ug/L	1	0.19	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,2-Dichloropropane [78-87-5] ^	0.98	J	ug/L	1	0.10	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.30	U	ug/L	1	0.30	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.40	J	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
1,4-Dichlorobenzene [106-46-7] ^	5.4		ug/L	1	0.19	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
2-Chlorotoluene [95-49-8] ^	1.7		ug/L	1	0.081	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
4-Chlorotoluene [106-43-4] ^	0.068	U	ug/L	1	0.068	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
4-Isopropyltoluene [99-87-6] ^	0.085	U	ug/L	1	0.085	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Benzene [71-43-2] ^	0.87	J	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Bromobenzene [108-86-1] ^	0.16	U	ug/L	1	0.16	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Chlorobenzene [108-90-7] ^	5.0		ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	4.1		ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Isopropylbenzene [98-82-8] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	1.4		ug/L	1	0.16	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	

Description: MW-2

Lab Sample ID: C203836-02

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 11:15

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
n-Butyl Benzene [104-51-8] ^	0.058	U	ug/L	1	0.058	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
n-Propyl Benzene [103-65-1] ^	0.12	U	ug/L	1	0.12	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
sec-Butylbenzene [135-98-8] ^	0.10	U	ug/L	1	0.10	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
tert-Butylbenzene [98-06-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	2E02016	EPA 8260B	05/02/12 21:19	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	46	1	50.0	92 %	51-122	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Dibromofluoromethane	48	1	50.0	96 %	68-117	2E02016	EPA 8260B	05/02/12 21:19	JKG	
Toluene-d8	48	1	50.0	96 %	67-127	2E02016	EPA 8260B	05/02/12 21:19	JKG	

Description: MW-2**Lab Sample ID:** C203836-02**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 11:15**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals by EPA 6000/7000 Series Methods***^ - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	2D20027	EPA 7470A	04/25/12 09:48	KER	

Description: MW-2**Lab Sample ID:** C203836-02**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 11:15**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals (total recoverable) by EPA 6000/7000 Series Methods**

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	2D24013	EPA 6010C	04/26/12 11:30	JDH	
Barium [7440-39-3] ^	645		ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:30	JDH	
Cadmium [7440-43-9] ^	1.93		ug/L	1	0.360	1.00	2D24013	EPA 6010C	04/26/12 11:30	JDH	
Chromium [7440-47-3] ^	7.12	J	ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:30	JDH	
Lead [7439-92-1] ^	2.50	J	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:30	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	2D24013	EPA 6010C	04/26/12 11:30	JDH	
Silver [7440-22-4] ^	2.94	J	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:30	JDH	

Description: MW-4

Lab Sample ID: C203836-03

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 10:30

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,1-Dichloroethane [75-34-3] ^	2.0		ug/L	1	0.13	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.012	U	ug/L	1	0.012	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.10	U	ug/L	1	0.10	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,2-Dichlorobenzene [95-50-1] ^	3.3		ug/L	1	0.19	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,2-Dichloroethane [107-06-2] ^	1.2		ug/L	1	0.21	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,2-Dichloropropane [78-87-5] ^	0.68	J	ug/L	1	0.10	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.30	U	ug/L	1	0.30	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.87	J	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
1,4-Dichlorobenzene [106-46-7] ^	12		ug/L	1	0.19	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
2-Chlorotoluene [95-49-8] ^	1.2		ug/L	1	0.081	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
4-Chlorotoluene [106-43-4] ^	0.068	U	ug/L	1	0.068	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
4-Isopropyltoluene [99-87-6] ^	0.085	U	ug/L	1	0.085	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Benzene [71-43-2] ^	1.7		ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Bromobenzene [108-86-1] ^	0.16	U	ug/L	1	0.16	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Chlorobenzene [108-90-7] ^	11		ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Chloroethane [75-00-3] ^	2.6		ug/L	1	0.23	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Isopropylbenzene [98-82-8] ^	0.57	J	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.16	U	ug/L	1	0.16	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	

Description: MW-4

Lab Sample ID: C203836-03

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 10:30

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
n-Butyl Benzene [104-51-8] ^	0.058	U	ug/L	1	0.058	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
n-Propyl Benzene [103-65-1] ^	0.12	U	ug/L	1	0.12	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
sec-Butylbenzene [135-98-8] ^	0.10	U	ug/L	1	0.10	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
tert-Butylbenzene [98-06-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	2E02016	EPA 8260B	05/02/12 21:49	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	48	1	50.0	96 %	51-122	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Dibromofluoromethane	48	1	50.0	97 %	68-117	2E02016	EPA 8260B	05/02/12 21:49	JKG	
Toluene-d8	48	1	50.0	97 %	67-127	2E02016	EPA 8260B	05/02/12 21:49	JKG	

Description: MW-4**Lab Sample ID:** C203836-03**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 10:30**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals by EPA 6000/7000 Series Methods***^ - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	2D20027	EPA 7470A	04/25/12 09:23	KER	

Description: MW-4**Lab Sample ID:** C203836-03**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 10:30**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals (total recoverable) by EPA 6000/7000 Series Methods**

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	2D24013	EPA 6010C	04/26/12 11:33	JDH	
Barium [7440-39-3] ^	602		ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:33	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	2D24013	EPA 6010C	04/26/12 11:33	JDH	
Chromium [7440-47-3] ^	3.08	J	ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:33	JDH	
Lead [7439-92-1] ^	1.91	J	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:33	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	2D24013	EPA 6010C	04/26/12 11:33	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:33	JDH	

Description: MW-5

Lab Sample ID: C203836-04

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 10:00

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.012	U	ug/L	1	0.012	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.10	U	ug/L	1	0.10	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.30	U	ug/L	1	0.30	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
2-Chlorotoluene [95-49-8] ^	0.081	U	ug/L	1	0.081	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
4-Chlorotoluene [106-43-4] ^	0.068	U	ug/L	1	0.068	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
4-Isopropyltoluene [99-87-6] ^	0.085	U	ug/L	1	0.085	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Bromobenzene [108-86-1] ^	0.16	U	ug/L	1	0.16	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Isopropylbenzene [98-82-8] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.16	U	ug/L	1	0.16	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	

Description: MW-5

Lab Sample ID: C203836-04

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 10:00

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
n-Butyl Benzene [104-51-8] ^	0.058	U	ug/L	1	0.058	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
n-Propyl Benzene [103-65-1] ^	0.12	U	ug/L	1	0.12	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
sec-Butylbenzene [135-98-8] ^	0.10	U	ug/L	1	0.10	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
tert-Butylbenzene [98-06-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Tetrachloroethene [127-18-4] ^	0.45	J	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	2E02016	EPA 8260B	05/02/12 22:18	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	46	1	50.0	92 %	51-122	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Dibromofluoromethane	47	1	50.0	94 %	68-117	2E02016	EPA 8260B	05/02/12 22:18	JKG	
Toluene-d8	46	1	50.0	93 %	67-127	2E02016	EPA 8260B	05/02/12 22:18	JKG	

Description: MW-5**Lab Sample ID:** C203836-04**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 10:00**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals by EPA 6000/7000 Series Methods***^ - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	2D20027	EPA 7470A	04/25/12 09:50	KER	

Description: MW-5**Lab Sample ID:** C203836-04**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 10:00**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals (total recoverable) by EPA 6000/7000 Series Methods**

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	2D24013	EPA 6010C	04/26/12 11:42	JDH	
Barium [7440-39-3] ^	91.4		ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:42	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	2D24013	EPA 6010C	04/26/12 11:42	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:42	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:42	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	2D24013	EPA 6010C	04/26/12 11:42	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:42	JDH	

Description: MW-6

Lab Sample ID: C203836-05

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 10:40

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.012	U	ug/L	1	0.012	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.10	U	ug/L	1	0.10	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.30	U	ug/L	1	0.30	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
2-Chlorotoluene [95-49-8] ^	0.081	U	ug/L	1	0.081	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
4-Chlorotoluene [106-43-4] ^	0.068	U	ug/L	1	0.068	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
4-Isopropyltoluene [99-87-6] ^	0.085	U	ug/L	1	0.085	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Bromobenzene [108-86-1] ^	0.16	U	ug/L	1	0.16	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Isopropylbenzene [98-82-8] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.16	U	ug/L	1	0.16	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	

Description: MW-6

Lab Sample ID: C203836-05

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 10:40

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
n-Butyl Benzene [104-51-8] ^	0.058	U	ug/L	1	0.058	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
n-Propyl Benzene [103-65-1] ^	0.12	U	ug/L	1	0.12	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
sec-Butylbenzene [135-98-8] ^	0.10	U	ug/L	1	0.10	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
tert-Butylbenzene [98-06-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	2E02016	EPA 8260B	05/02/12 22:48	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	45	1	50.0	90 %	51-122	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Dibromofluoromethane	47	1	50.0	95 %	68-117	2E02016	EPA 8260B	05/02/12 22:48	JKG	
Toluene-d8	47	1	50.0	94 %	67-127	2E02016	EPA 8260B	05/02/12 22:48	JKG	

Description: MW-6**Lab Sample ID:** C203836-05**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 10:40**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals by EPA 6000/7000 Series Methods***^ - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	2D20027	EPA 7470A	04/25/12 09:52	KER	

Description: MW-6**Lab Sample ID:** C203836-05**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 10:40**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals (total recoverable) by EPA 6000/7000 Series Methods**

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	2D24013	EPA 6010C	04/26/12 11:44	JDH	
Barium [7440-39-3] ^	165		ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:44	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	2D24013	EPA 6010C	04/26/12 11:44	JDH	
Chromium [7440-47-3] ^	2.17	J	ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:44	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:44	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	2D24013	EPA 6010C	04/26/12 11:44	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:44	JDH	

Description: MW-6A

Lab Sample ID: C203836-06

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 10:42

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,1-Dichloroethane [75-34-3] ^	1.1		ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.012	U	ug/L	1	0.012	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.49	J	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.30	U	ug/L	1	0.30	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
2-Chlorotoluene [95-49-8] ^	0.081	U	ug/L	1	0.081	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
4-Chlorotoluene [106-43-4] ^	0.068	U	ug/L	1	0.068	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
4-Isopropyltoluene [99-87-6] ^	0.085	U	ug/L	1	0.085	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Bromobenzene [108-86-1] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Chlorobenzene [108-90-7] ^	1.3		ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Isopropylbenzene [98-82-8] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	

Description: MW-6A

Lab Sample ID: C203836-06

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 10:42

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
n-Butyl Benzene [104-51-8] ^	0.058	U	ug/L	1	0.058	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
n-Propyl Benzene [103-65-1] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
sec-Butylbenzene [135-98-8] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
tert-Butylbenzene [98-06-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	2E02017	EPA 8260B	05/03/12 04:13	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	46	1	50.0	92 %	51-122	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Dibromofluoromethane	48	1	50.0	95 %	68-117	2E02017	EPA 8260B	05/03/12 04:13	JKG	
Toluene-d8	47	1	50.0	95 %	67-127	2E02017	EPA 8260B	05/03/12 04:13	JKG	

Description: MW-6A**Lab Sample ID:** C203836-06**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 10:42**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals by EPA 6000/7000 Series Methods***^ - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	2D20027	EPA 7470A	04/25/12 09:54	KER	

Description: MW-6A**Lab Sample ID:** C203836-06**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 10:42**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals (total recoverable) by EPA 6000/7000 Series Methods**

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	2D24013	EPA 6010C	04/26/12 11:46	JDH	
Barium [7440-39-3] ^	378		ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:46	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	2D24013	EPA 6010C	04/26/12 11:46	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:46	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:46	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	2D24013	EPA 6010C	04/26/12 11:46	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:46	JDH	

Description: MW-7

Lab Sample ID: C203836-07

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 11:05

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,1-Dichloroethane [75-34-3] ^	0.63	J	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.012	U	ug/L	1	0.012	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.57	J	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.30	U	ug/L	1	0.30	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.48	J	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
1,4-Dichlorobenzene [106-46-7] ^	5.5		ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
2-Chlorotoluene [95-49-8] ^	1.1		ug/L	1	0.081	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
4-Chlorotoluene [106-43-4] ^	0.068	U	ug/L	1	0.068	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
4-Isopropyltoluene [99-87-6] ^	0.085	U	ug/L	1	0.085	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Benzene [71-43-2] ^	0.88	J	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Bromobenzene [108-86-1] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Chlorobenzene [108-90-7] ^	3.9		ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	1.6		ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Isopropylbenzene [98-82-8] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.69	J	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	

Description: MW-7

Lab Sample ID: C203836-07

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 11:05

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
n-Butyl Benzene [104-51-8] ^	0.058	U	ug/L	1	0.058	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
n-Propyl Benzene [103-65-1] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
sec-Butylbenzene [135-98-8] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
tert-Butylbenzene [98-06-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	2E02017	EPA 8260B	05/03/12 04:43	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	47	1	50.0	93 %	51-122	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Dibromofluoromethane	49	1	50.0	98 %	68-117	2E02017	EPA 8260B	05/03/12 04:43	JKG	
Toluene-d8	48	1	50.0	96 %	67-127	2E02017	EPA 8260B	05/03/12 04:43	JKG	

Description: MW-7**Lab Sample ID:** C203836-07**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 11:05**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals by EPA 6000/7000 Series Methods***^ - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	2D20027	EPA 7470A	04/25/12 10:07	KER	

Description: MW-7**Lab Sample ID:** C203836-07**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 11:05**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals (total recoverable) by EPA 6000/7000 Series Methods**

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	2D24013	EPA 6010C	04/26/12 11:49	JDH	
Barium [7440-39-3] ^	615		ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:49	JDH	
Cadmium [7440-43-9] ^	3.47		ug/L	1	0.360	1.00	2D24013	EPA 6010C	04/26/12 11:49	JDH	
Chromium [7440-47-3] ^	8.12	J	ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:49	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:49	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	2D24013	EPA 6010C	04/26/12 11:49	JDH	
Silver [7440-22-4] ^	3.93	J	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:49	JDH	

Description: MW-7A

Lab Sample ID: C203836-08

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 11:10

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,1-Dichloroethane [75-34-3] ^	0.88	J	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.012	U	ug/L	1	0.012	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.44	J	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.30	U	ug/L	1	0.30	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.52	J	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
1,4-Dichlorobenzene [106-46-7] ^	3.6		ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
2-Chlorotoluene [95-49-8] ^	0.70	J	ug/L	1	0.081	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
4-Chlorotoluene [106-43-4] ^	0.068	U	ug/L	1	0.068	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
4-Isopropyltoluene [99-87-6] ^	0.085	U	ug/L	1	0.085	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Benzene [71-43-2] ^	0.55	J	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Bromobenzene [108-86-1] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Chlorobenzene [108-90-7] ^	2.9		ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	3.8		ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Isopropylbenzene [98-82-8] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	

Description: MW-7A

Lab Sample ID: C203836-08

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 11:10

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
n-Butyl Benzene [104-51-8] ^	0.058	U	ug/L	1	0.058	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
n-Propyl Benzene [103-65-1] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
sec-Butylbenzene [135-98-8] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
tert-Butylbenzene [98-06-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Trichloroethene [79-01-6] ^	1.5		ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	2E02017	EPA 8260B	05/03/12 05:12	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	46	1	50.0	92 %	51-122	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Dibromofluoromethane	49	1	50.0	97 %	68-117	2E02017	EPA 8260B	05/03/12 05:12	JKG	
Toluene-d8	47	1	50.0	94 %	67-127	2E02017	EPA 8260B	05/03/12 05:12	JKG	

Description: MW-7A**Lab Sample ID:** C203836-08**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 11:10**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals by EPA 6000/7000 Series Methods***^ - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	2D20027	EPA 7470A	04/25/12 10:10	KER	

Description: MW-7A**Lab Sample ID:** C203836-08**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 11:10**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals (total recoverable) by EPA 6000/7000 Series Methods**

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	2D24013	EPA 6010C	04/26/12 11:51	JDH	
Barium [7440-39-3] ^	411		ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:51	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	2D24013	EPA 6010C	04/26/12 11:51	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:51	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:51	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	2D24013	EPA 6010C	04/26/12 11:51	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:51	JDH	

Description: MW-8

Lab Sample ID: C203836-09

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 09:45

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,1-Dichloroethane [75-34-3] ^	0.72	J	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.012	U	ug/L	1	0.012	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.30	U	ug/L	1	0.30	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.58	J	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
2-Chlorotoluene [95-49-8] ^	3.4		ug/L	1	0.081	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
4-Chlorotoluene [106-43-4] ^	0.068	U	ug/L	1	0.068	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
4-Isopropyltoluene [99-87-6] ^	0.085	U	ug/L	1	0.085	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Bromobenzene [108-86-1] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	1.1		ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Isopropylbenzene [98-82-8] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	

Description: MW-8

Lab Sample ID: C203836-09

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 09:45

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
n-Butyl Benzene [104-51-8] ^	0.058	U	ug/L	1	0.058	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
n-Propyl Benzene [103-65-1] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
sec-Butylbenzene [135-98-8] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
tert-Butylbenzene [98-06-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Xylenes (Total) [1330-20-7] ^	1.1	J	ug/L	1	0.45	3.0	2E02017	EPA 8260B	05/03/12 05:42	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	48	1	50.0	96 %	51-122	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Dibromofluoromethane	49	1	50.0	97 %	68-117	2E02017	EPA 8260B	05/03/12 05:42	JKG	
Toluene-d8	48	1	50.0	96 %	67-127	2E02017	EPA 8260B	05/03/12 05:42	JKG	

Description: MW-8**Lab Sample ID:** C203836-09**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 09:45**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals by EPA 6000/7000 Series Methods***^ - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	2D20027	EPA 7470A	04/25/12 10:12	KER	

Description: MW-8

Lab Sample ID: C203836-09

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 09:45

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Metals (total recoverable) by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	2D24013	EPA 6010C	04/26/12 11:53	JDH	
Barium [7440-39-3] ^	205		ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:53	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	2D24013	EPA 6010C	04/26/12 11:53	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:53	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:53	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	2D24013	EPA 6010C	04/26/12 11:53	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:53	JDH	

Description: MW-9

Lab Sample ID: C203836-10

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 09:40

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,1-Dichloroethane [75-34-3] ^	0.45	J	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.012	U	ug/L	1	0.012	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.30	U	ug/L	1	0.30	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
2-Chlorotoluene [95-49-8] ^	0.081	U	ug/L	1	0.081	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
4-Chlorotoluene [106-43-4] ^	0.068	U	ug/L	1	0.068	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
4-Isopropyltoluene [99-87-6] ^	0.085	U	ug/L	1	0.085	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Bromobenzene [108-86-1] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Isopropylbenzene [98-82-8] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	

Description: MW-9

Lab Sample ID: C203836-10

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 09:40

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
n-Butyl Benzene [104-51-8] ^	0.058	U	ug/L	1	0.058	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
n-Propyl Benzene [103-65-1] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
sec-Butylbenzene [135-98-8] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
tert-Butylbenzene [98-06-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Tetrachloroethene [127-18-4] ^	1.4		ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	2E02017	EPA 8260B	05/03/12 06:11	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	47	1	50.0	94 %	51-122	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Dibromofluoromethane	49	1	50.0	98 %	68-117	2E02017	EPA 8260B	05/03/12 06:11	JKG	
Toluene-d8	48	1	50.0	95 %	67-127	2E02017	EPA 8260B	05/03/12 06:11	JKG	

Description: MW-9**Lab Sample ID:** C203836-10**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 09:40**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals by EPA 6000/7000 Series Methods***^ - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	2.75		ug/L	1	0.170	0.200	2D20027	EPA 7470A	04/25/12 10:14	KER	

Description: MW-9**Lab Sample ID:** C203836-10**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 09:40**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals (total recoverable) by EPA 6000/7000 Series Methods**

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	2D24013	EPA 6010C	04/26/12 11:56	JDH	
Barium [7440-39-3] ^	302		ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:56	JDH	
Cadmium [7440-43-9] ^	0.447	J	ug/L	1	0.360	1.00	2D24013	EPA 6010C	04/26/12 11:56	JDH	
Chromium [7440-47-3] ^	2.98	J	ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:56	JDH	
Lead [7439-92-1] ^	2.93	J	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:56	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	2D24013	EPA 6010C	04/26/12 11:56	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:56	JDH	

Description: MW-10

Lab Sample ID: C203836-11

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 09:35

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.012	U	ug/L	1	0.012	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.30	U	ug/L	1	0.30	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
2-Chlorotoluene [95-49-8] ^	0.081	U	ug/L	1	0.081	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
4-Chlorotoluene [106-43-4] ^	0.068	U	ug/L	1	0.068	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
4-Isopropyltoluene [99-87-6] ^	0.085	U	ug/L	1	0.085	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Bromobenzene [108-86-1] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Isopropylbenzene [98-82-8] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	

Description: MW-10

Lab Sample ID: C203836-11

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 09:35

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
n-Butyl Benzene [104-51-8] ^	0.058	U	ug/L	1	0.058	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
n-Propyl Benzene [103-65-1] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
sec-Butylbenzene [135-98-8] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
tert-Butylbenzene [98-06-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	2E02017	EPA 8260B	05/03/12 06:41	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	46	1	50.0	92 %	51-122	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Dibromofluoromethane	48	1	50.0	96 %	68-117	2E02017	EPA 8260B	05/03/12 06:41	JKG	
Toluene-d8	48	1	50.0	96 %	67-127	2E02017	EPA 8260B	05/03/12 06:41	JKG	

Description: MW-10

Lab Sample ID: C203836-11

Received: 04/24/12 08:15

Matrix: Ground Water

Sampled: 04/20/12 09:35

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: Courtney Murphy

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	2D20027	EPA 7470A	04/25/12 10:16	KER	

Description: MW-10**Lab Sample ID:** C203836-11**Received:** 04/24/12 08:15**Matrix:** Ground Water**Sampled:** 04/20/12 09:35**Work Order:** C203836**Project:** Owl's Den LF - Groundwater**Sampled By:** Courtney Murphy**Metals (total recoverable) by EPA 6000/7000 Series Methods**[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.81	J	ug/L	1	2.80	10.0	2D24013	EPA 6010C	04/26/12 11:58	JDH	
Barium [7440-39-3] ^	118		ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:58	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	2D24013	EPA 6010C	04/26/12 11:58	JDH	
Chromium [7440-47-3] ^	2.42	J	ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:58	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:58	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	2D24013	EPA 6010C	04/26/12 11:58	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:58	JDH	

Description: Trip Blank

Lab Sample ID: C203836-12

Received: 04/24/12 08:15

Matrix: Water

Sampled: 04/20/12 09:35

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: ENCO

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.012	U	ug/L	1	0.012	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.30	U	ug/L	1	0.30	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
2-Chlorotoluene [95-49-8] ^	0.081	U	ug/L	1	0.081	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
4-Chlorotoluene [106-43-4] ^	0.068	U	ug/L	1	0.068	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
4-Isopropyltoluene [99-87-6] ^	0.085	U	ug/L	1	0.085	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Bromobenzene [108-86-1] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Isopropylbenzene [98-82-8] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	

Description: Trip Blank

Lab Sample ID: C203836-12

Received: 04/24/12 08:15

Matrix: Water

Sampled: 04/20/12 09:35

Work Order: C203836

Project: Owl's Den LF - Groundwater

Sampled By: ENCO

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
n-Butyl Benzene [104-51-8] ^	0.058	U	ug/L	1	0.058	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
n-Propyl Benzene [103-65-1] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
sec-Butylbenzene [135-98-8] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
tert-Butylbenzene [98-06-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	2E02017	EPA 8260B	05/03/12 07:11	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	47	1	50.0	93 %	51-122	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Dibromofluoromethane	49	1	50.0	98 %	68-117	2E02017	EPA 8260B	05/03/12 07:11	JKG	
Toluene-d8	48	1	50.0	96 %	67-127	2E02017	EPA 8260B	05/03/12 07:11	JKG	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E02016 - EPA 5030B_MS

Blank (2E02016-BLK1)

Prepared: 05/02/2012 10:35 Analyzed: 05/02/2012 12:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.012	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.10	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.30	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	1.1	U	5.0	ug/L							
2-Chlorotoluene	0.081	U	1.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Chlorotoluene	0.068	U	1.0	ug/L							
4-Isopropyltoluene	0.085	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromobenzene	0.16	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Hexachlorobutadiene	0.22	U	1.0	ug/L							
Isopropylbenzene	0.14	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E02016 - EPA 5030B_MS

Blank (2E02016-BLK1) Continued

Prepared: 05/02/2012 10:35 Analyzed: 05/02/2012 12:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methylene chloride	0.23	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.16	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
n-Butyl Benzene	0.058	U	1.0	ug/L							
n-Propyl Benzene	0.12	U	1.0	ug/L							
sec-Butylbenzene	0.10	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
tert-Butylbenzene	0.17	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	47			ug/L	50.0		94	51-122			
<i>Surrogate: Dibromofluoromethane</i>	48			ug/L	50.0		96	68-117			
<i>Surrogate: Toluene-d8</i>	48			ug/L	50.0		97	67-127			

LCS (2E02016-BS1)

Prepared: 05/02/2012 10:35 Analyzed: 05/02/2012 12:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		111	75-133			
Benzene	21		1.0	ug/L	20.0		105	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		101	83-117			
Toluene	20		1.0	ug/L	20.0		100	71-118			
Trichloroethene	20		1.0	ug/L	20.0		98	82-118			

Matrix Spike (2E02016-MS1)

Prepared: 05/02/2012 10:35 Analyzed: 05/02/2012 13:28

Source: C204966-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.21 U	116	75-133			
Benzene	21		1.0	ug/L	20.0	0.15 U	106	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	107	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	107	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	103	82-118			

Matrix Spike Dup (2E02016-MSD1)

Prepared: 05/02/2012 10:35 Analyzed: 05/02/2012 13:58

Source: C204966-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.21 U	104	75-133	10	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	98	81-134	8	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	96	83-117	11	16	
Toluene	19		1.0	ug/L	20.0	0.14 U	96	71-118	11	17	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E02016 - EPA 5030B_MS

Matrix Spike Dup (2E02016-MSD1) Continued

Prepared: 05/02/2012 10:35 Analyzed: 05/02/2012 13:58

Source: C204966-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	93	82-118	10	15	

Batch 2E02017 - EPA 5030B_MS

Blank (2E02017-BLK1)

Prepared: 05/02/2012 10:57 Analyzed: 05/03/2012 01:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.012	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.10	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.30	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	1.1	U	5.0	ug/L							
2-Chlorotoluene	0.081	U	1.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Chlorotoluene	0.068	U	1.0	ug/L							
4-Isopropyltoluene	0.085	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromobenzene	0.16	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E02017 - EPA 5030B_MS

Blank (2E02017-BLK1) Continued

Prepared: 05/02/2012 10:57 Analyzed: 05/03/2012 01:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Hexachlorobutadiene	0.22	U	1.0	ug/L							
Isopropylbenzene	0.14	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.16	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
n-Butyl Benzene	0.058	U	1.0	ug/L							
n-Propyl Benzene	0.12	U	1.0	ug/L							
sec-Butylbenzene	0.10	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
tert-Butylbenzene	0.17	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	46			ug/L	50.0		91	51-122			
<i>Surrogate: Dibromofluoromethane</i>	49			ug/L	50.0		97	68-117			
<i>Surrogate: Toluene-d8</i>	47			ug/L	50.0		94	67-127			

LCS (2E02017-BS1)

Prepared: 05/02/2012 10:57 Analyzed: 05/03/2012 02:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		107	75-133			
Benzene	20		1.0	ug/L	20.0		101	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		100	83-117			
Toluene	20		1.0	ug/L	20.0		98	71-118			
Trichloroethene	19		1.0	ug/L	20.0		97	82-118			

Matrix Spike (2E02017-MS1)

Prepared: 05/02/2012 10:57 Analyzed: 05/03/2012 02:44

Source: C204966-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.21 U	116	75-133			
Benzene	22		1.0	ug/L	20.0	0.15 U	108	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	105	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	100	82-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E02017 - EPA 5030B_MS

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 2D20027 - EPA 245.1

Blank (2D20027-BLK1)

Prepared: 04/24/2012 13:13 Analyzed: 04/25/2012 09:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (2D20027-BS1)

Prepared: 04/24/2012 13:13 Analyzed: 04/25/2012 09:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.21		0.200	ug/L	5.00		104	80-120			

Matrix Spike (2D20027-MS1)

Prepared: 04/24/2012 13:13 Analyzed: 04/25/2012 09:25

Source: C203836-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.65		0.200	ug/L	5.00	0.170 U	93	75-125			

Matrix Spike Dup (2D20027-MSD1)

Prepared: 04/24/2012 13:13 Analyzed: 04/25/2012 09:28

Source: C203836-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.64		0.200	ug/L	5.00	0.170 U	93	75-125	0.2	25	

Post Spike (2D20027-PS1)

Prepared: 04/24/2012 13:13 Analyzed: 04/25/2012 09:30

Source: C203836-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.57		0.200	ug/L	5.00	-0.0120	92	75-125			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 2D24013 - EPA 3005A

Blank (2D24013-BLK1)

Prepared: 04/24/2012 09:48 Analyzed: 04/26/2012 11:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Selenium	2.70	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							

LCS (2D24013-BS1)

Prepared: 04/24/2012 09:48 Analyzed: 04/26/2012 11:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	200		10.0	ug/L	200		100	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 2D24013 - EPA 3005A

LCS (2D24013-BS1) Continued

Prepared: 04/24/2012 09:48 Analyzed: 04/26/2012 11:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Barium	207		10.0	ug/L	200		103	80-120			
Cadmium	21.0		1.00	ug/L	20.0		105	80-120			
Chromium	204		10.0	ug/L	200		102	80-120			
Lead	204		10.0	ug/L	200		102	80-120			
Selenium	203		10.0	ug/L	200		102	80-120			
Silver	206		10.0	ug/L	200		103	80-120			

Matrix Spike (2D24013-MS1)

Prepared: 04/24/2012 09:48 Analyzed: 04/26/2012 11:23

Source: C203836-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	204		10.0	ug/L	200	2.80 U	102	75-125			
Barium	352		10.0	ug/L	200	144	104	75-125			
Cadmium	21.1		1.00	ug/L	20.0	0.360 U	105	75-125			
Chromium	207		10.0	ug/L	200	1.00 U	103	75-125			
Lead	206		10.0	ug/L	200	1.90 U	103	75-125			
Selenium	208		10.0	ug/L	200	5.18	102	75-125			
Silver	205		10.0	ug/L	200	1.90 U	103	75-125			

Matrix Spike Dup (2D24013-MSD1)

Prepared: 04/24/2012 09:48 Analyzed: 04/26/2012 11:24

Source: C203836-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	195		10.0	ug/L	200	2.80 U	97	75-125	5	20	
Barium	347		10.0	ug/L	200	144	102	75-125	1	20	
Cadmium	20.5		1.00	ug/L	20.0	0.360 U	103	75-125	2	20	
Chromium	203		10.0	ug/L	200	1.00 U	102	75-125	2	20	
Lead	207		10.0	ug/L	200	1.90 U	103	75-125	0.2	20	
Selenium	208		10.0	ug/L	200	5.18	102	75-125	0.1	20	
Silver	202		10.0	ug/L	200	1.90 U	101	75-125	2	20	

Post Spike (2D24013-PS1)

Prepared: 04/24/2012 09:48 Analyzed: 04/26/2012 11:26

Source: C203836-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.200		0.0100	mg/L	0.200	0.000865	99	80-120			
Barium	0.342		0.0100	mg/L	0.200	0.144	99	80-120			
Cadmium	0.0205		0.00100	mg/L	0.0200	4.98E-5	102	80-120			
Chromium	0.202		0.0100	mg/L	0.200	0.000824	100	80-120			
Lead	0.201		0.0100	mg/L	0.200	0.000550	100	80-120			
Selenium	0.201		0.0100	mg/L	0.200	0.00518	98	80-120			
Silver	0.212		0.0100	mg/L	0.200	-0.000188	106	80-120			

FLAGS/NOTES AND DEFINITIONS

- B The analyte was detected in the associated method blank.
- D The sample was analyzed at dilution.
- J The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
- U The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
- MRL Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.



ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Page 1 of 2

Client Name S&ME, Inc. (SM002)		Project Number 1356-07-006		Requested Turnaround Times			
Address 9751 Southern Pine Blvd.		Project Name/Desc Owl's Den LF - Groundwater		Note: Rush requests subject to acceptance by the facility			
City/ST/Zip Charlotte, NC 28273		PO # / Billing info 56554		<input checked="" type="checkbox"/> Standard			
Tel (704) 523-4726		Reporting Contact Courtney Wither Murphy		<input type="checkbox"/> Expedited			
Fax (704) 525-3953		Billing Contact Barbara Ellington		Due <u>/ /</u>			
Sampler(s) Name, Affiliation (Print) Courtney Murphy		Site Location/Time Zone Lincolnton, NC		Lab Workorder C203836			
Sampler(s) Signature Courtney Murphy							
Preservation (See Codes) (Combine as necessary)							
Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Sample Comments
MW-1	4-20-12	0910	G	GW	4	X X X X	
MW-2	4-20-12	1115	G	GW	4	X X X X	
MW-3	4-20-12	1030	G	GW	4	X X X X	
MW-4	4-20-12	1000	G	GW	4	X X X X	
MW-5	4-20-12	1040	G	GW	4	X X X X	
MW-6	4-20-12	1042	G	GW	4	X X X X	
MW-6A	4-20-12	1105	G	GW	4	X X X X	
MW-7	4-20-12	1110	G	GW	4	X X X X	
MW-7A	4-20-12	0945	G	GW	4	X X X X	
MW-8	4-20-12	0940	G	GW	4	X X X X	
MW-9	4-20-12	0935	G	GW	4	X X X X	
MW-10	4-20-12	0935	G	GW	4	X X X X	
						44 <-- Total # of Containers	
Sample Kit Prepared By UNES	Date/Time 3/31/12	Relinquished By Courtney Murphy		Received By Diana Yeager		Date/Time 4/3/12 07:15	
Comments/Special Reporting Requirements				Received By		Date/Time	
				Received By		Date/Time	
				Received By		Date/Time	
				Condition Upon Receipt Acceptable		Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air H-HCl N-NH3 S-Sulfuric Acid O-OH Other (detail in comments)

Preservation: I-Ice H-HCl N-NH3 S-Sulfuric Acid O-OH Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Environmental Conservation Laboratories, Inc.

102-A Woodwinds Industrial Court

Cary NC, 27511

Phone: 919.467.3090 FAX: 919.467.3515



www.encolabs.com

Thursday, May 3, 2012

S&ME, Inc. (SM002)

Attn: Courtney Murphy

9751 Southern Pine Blvd.

Charlotte, NC 28273

RE: Laboratory Results for

Project Number: 1356-07-006, Project Name/Desc: Owl's Den LF - Surfacewater

ENCO Workorder(s): C203837

Dear Courtney Murphy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, April 24, 2012.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads "Chuck Smith".

Chuck Smith

Project Manager

Enclosure(s)

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SW-1		Lab ID: C203837-01	Sampled: 04/20/12 10:10		Received: 04/24/12 08:15
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	10/17/12		04/24/12	09:48	4/26/2012 11:59
EPA 7470A	05/18/12		04/24/12	13:13	4/25/2012 10:18
EPA 8260B	05/04/12		05/02/12	10:57	5/3/2012 07:40

Client ID: SW-2		Lab ID: C203837-02	Sampled: 04/20/12 11:30		Received: 04/24/12 08:15
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	10/17/12		04/24/12	09:48	4/26/2012 12:01
EPA 7470A	05/18/12		04/24/12	13:13	4/25/2012 10:27
EPA 8260B	05/04/12		05/02/12	10:57	5/3/2012 08:10

Client ID: SW-3		Lab ID: C203837-03	Sampled: 04/20/12 11:45		Received: 04/24/12 08:15
Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	10/17/12		04/24/12	09:48	4/26/2012 12:32
EPA 7470A	05/18/12		04/24/12	13:13	4/25/2012 10:29
EPA 8260B	05/04/12		05/02/12	10:57	5/3/2012 08:39

SAMPLE DETECTION SUMMARY

Client ID: SW-1		Lab ID: C203837-01						
Analyte		Results	Flag	MDL	PQL	Units	Method	Notes
Barium - Total		96.0		1.00	10.0	ug/L	EPA 6010C	
Chromium - Total		1.29	J	1.00	10.0	ug/L	EPA 6010C	
Lead - Total		3.02	J	1.90	10.0	ug/L	EPA 6010C	

Client ID: SW-2		Lab ID: C203837-02						
Analyte		Results	Flag	MDL	PQL	Units	Method	Notes
Barium - Total		186		1.00	10.0	ug/L	EPA 6010C	
cis-1,2-Dichloroethene		1.4		0.15	1.0	ug/L	EPA 8260B	

Client ID: SW-3		Lab ID: C203837-03						
Analyte		Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane		0.64	J	0.13	1.0	ug/L	EPA 8260B	
1,4-Dichlorobenzene		0.54	J	0.19	1.0	ug/L	EPA 8260B	
Barium - Total		256		1.00	10.0	ug/L	EPA 6010C	
cis-1,2-Dichloroethene		0.57	J	0.15	1.0	ug/L	EPA 8260B	

ANALYTICAL RESULTS

Description: SW-1

Lab Sample ID: C203837-01

Received: 04/24/12 08:15

Matrix: Surface Water

Sampled: 04/20/12 10:10

Work Order: C203837

Project: Owl's Den LF - Surfacewater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.012	U	ug/L	1	0.012	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.30	U	ug/L	1	0.30	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
2-Chlorotoluene [95-49-8] ^	0.081	U	ug/L	1	0.081	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
4-Chlorotoluene [106-43-4] ^	0.068	U	ug/L	1	0.068	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
4-Isopropyltoluene [99-87-6] ^	0.085	U	ug/L	1	0.085	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Bromobenzene [108-86-1] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	

Description: SW-1

Lab Sample ID: C203837-01

Received: 04/24/12 08:15

Matrix: Surface Water

Sampled: 04/20/12 10:10

Work Order: C203837

Project: Owl's Den LF - Surfacewater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Isopropylbenzene [98-82-8] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
n-Butyl Benzene [104-51-8] ^	0.058	U	ug/L	1	0.058	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
n-Propyl Benzene [103-65-1] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
sec-Butylbenzene [135-98-8] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
tert-Butylbenzene [98-06-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	2E02017	EPA 8260B	05/03/12 07:40	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	46	1	50.0	93 %	51-122	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Dibromofluoromethane	49	1	50.0	98 %	68-117	2E02017	EPA 8260B	05/03/12 07:40	JKG	
Toluene-d8	48	1	50.0	96 %	67-127	2E02017	EPA 8260B	05/03/12 07:40	JKG	

Description: SW-1**Lab Sample ID:** C203837-01**Received:** 04/24/12 08:15**Matrix:** Surface Water**Sampled:** 04/20/12 10:10**Work Order:** C203837**Project:** Owl's Den LF - Surfacewater**Sampled By:** Courtney Murphy**Metals by EPA 6000/7000 Series Methods***^ - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	2D20027	EPA 7470A	04/25/12 10:18	KER	

Description: SW-1

Lab Sample ID: C203837-01

Received: 04/24/12 08:15

Matrix: Surface Water

Sampled: 04/20/12 10:10

Work Order: C203837

Project: Owl's Den LF - Surfacewater

Sampled By: Courtney Murphy

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	2D24013	EPA 6010C	04/26/12 11:59	JDH	
Barium [7440-39-3] ^	96.0		ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:59	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	2D24013	EPA 6010C	04/26/12 11:59	JDH	
Chromium [7440-47-3] ^	1.29	J	ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 11:59	JDH	
Lead [7439-92-1] ^	3.02	J	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:59	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	2D24013	EPA 6010C	04/26/12 11:59	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 11:59	JDH	

Description: SW-2

Lab Sample ID: C203837-02

Received: 04/24/12 08:15

Matrix: Surface Water

Sampled: 04/20/12 11:30

Work Order: C203837

Project: Owl's Den LF - Surfacewater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.012	U	ug/L	1	0.012	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.30	U	ug/L	1	0.30	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
2-Chlorotoluene [95-49-8] ^	0.081	U	ug/L	1	0.081	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
4-Chlorotoluene [106-43-4] ^	0.068	U	ug/L	1	0.068	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
4-Isopropyltoluene [99-87-6] ^	0.085	U	ug/L	1	0.085	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Bromobenzene [108-86-1] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	1.4		ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Isopropylbenzene [98-82-8] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	

Description: SW-2

Lab Sample ID: C203837-02

Received: 04/24/12 08:15

Matrix: Surface Water

Sampled: 04/20/12 11:30

Work Order: C203837

Project: Owl's Den LF - Surfacewater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
n-Butyl Benzene [104-51-8] ^	0.058	U	ug/L	1	0.058	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
n-Propyl Benzene [103-65-1] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
sec-Butylbenzene [135-98-8] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
tert-Butylbenzene [98-06-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	2E02017	EPA 8260B	05/03/12 08:10	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	45	1	50.0	91 %	51-122	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Dibromofluoromethane	46	1	50.0	93 %	68-117	2E02017	EPA 8260B	05/03/12 08:10	JKG	
Toluene-d8	47	1	50.0	94 %	67-127	2E02017	EPA 8260B	05/03/12 08:10	JKG	

Description: SW-2**Lab Sample ID:** C203837-02**Received:** 04/24/12 08:15**Matrix:** Surface Water**Sampled:** 04/20/12 11:30**Work Order:** C203837**Project:** Owl's Den LF - Surfacewater**Sampled By:** Courtney Murphy**Metals by EPA 6000/7000 Series Methods***^ - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	2D20027	EPA 7470A	04/25/12 10:27	KER	

Description: SW-2**Lab Sample ID:** C203837-02**Received:** 04/24/12 08:15**Matrix:** Surface Water**Sampled:** 04/20/12 11:30**Work Order:** C203837**Project:** Owl's Den LF - Surfacewater**Sampled By:** Courtney Murphy**Metals (total recoverable) by EPA 6000/7000 Series Methods**

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	2D24013	EPA 6010C	04/26/12 12:01	JDH	
Barium [7440-39-3] ^	186		ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 12:01	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	2D24013	EPA 6010C	04/26/12 12:01	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 12:01	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 12:01	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	2D24013	EPA 6010C	04/26/12 12:01	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 12:01	JDH	

Description: SW-3

Lab Sample ID: C203837-03

Received: 04/24/12 08:15

Matrix: Surface Water

Sampled: 04/20/12 11:45

Work Order: C203837

Project: Owl's Den LF - Surfacewater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,1-Dichloroethane [75-34-3] ^	0.64	J	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,2,3-Trichlorobenzene [87-61-6] ^	0.012	U	ug/L	1	0.012	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,2,4-Trimethylbenzene [95-63-6] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,3,5-Trimethylbenzene [108-67-8] ^	0.30	U	ug/L	1	0.30	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.54	J	ug/L	1	0.19	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
2-Chloroethyl Vinyl Ether [110-75-8] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
2-Chlorotoluene [95-49-8] ^	0.081	U	ug/L	1	0.081	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
4-Chlorotoluene [106-43-4] ^	0.068	U	ug/L	1	0.068	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
4-Isopropyltoluene [99-87-6] ^	0.085	U	ug/L	1	0.085	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Bromobenzene [108-86-1] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.57	J	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Isopropylbenzene [98-82-8] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Methyl-tert-Butyl Ether [1634-04-4] ^	0.16	U	ug/L	1	0.16	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	

Description: SW-3

Lab Sample ID: C203837-03

Received: 04/24/12 08:15

Matrix: Surface Water

Sampled: 04/20/12 11:45

Work Order: C203837

Project: Owl's Den LF - Surfacewater

Sampled By: Courtney Murphy

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
n-Butyl Benzene [104-51-8] ^	0.058	U	ug/L	1	0.058	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
n-Propyl Benzene [103-65-1] ^	0.12	U	ug/L	1	0.12	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
sec-Butylbenzene [135-98-8] ^	0.10	U	ug/L	1	0.10	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
tert-Butylbenzene [98-06-6] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	2E02017	EPA 8260B	05/03/12 08:39	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	47	1	50.0	94 %	51-122	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Dibromofluoromethane	49	1	50.0	97 %	68-117	2E02017	EPA 8260B	05/03/12 08:39	JKG	
Toluene-d8	48	1	50.0	96 %	67-127	2E02017	EPA 8260B	05/03/12 08:39	JKG	

Description: SW-3

Lab Sample ID: C203837-03

Received: 04/24/12 08:15

Matrix: Surface Water

Sampled: 04/20/12 11:45

Work Order: C203837

Project: Owl's Den LF - Surfacewater

Sampled By: Courtney Murphy

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	2D20027	EPA 7470A	04/25/12 10:29	KER	

Description: SW-3**Lab Sample ID:** C203837-03**Received:** 04/24/12 08:15**Matrix:** Surface Water**Sampled:** 04/20/12 11:45**Work Order:** C203837**Project:** Owl's Den LF - Surfacewater**Sampled By:** Courtney Murphy**Metals (total recoverable) by EPA 6000/7000 Series Methods**

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	2D24013	EPA 6010C	04/26/12 12:32	JDH	
Barium [7440-39-3] ^	256		ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 12:32	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	2D24013	EPA 6010C	04/26/12 12:32	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	2D24013	EPA 6010C	04/26/12 12:32	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 12:32	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	2D24013	EPA 6010C	04/26/12 12:32	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	2D24013	EPA 6010C	04/26/12 12:32	JDH	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E02017 - EPA 5030B_MS

Blank (2E02017-BLK1)

Prepared: 05/02/2012 10:57 Analyzed: 05/03/2012 01:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.012	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.10	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.30	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	1.1	U	5.0	ug/L							
2-Chlorotoluene	0.081	U	1.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Chlorotoluene	0.068	U	1.0	ug/L							
4-Isopropyltoluene	0.085	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromobenzene	0.16	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Hexachlorobutadiene	0.22	U	1.0	ug/L							
Isopropylbenzene	0.14	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 2E02017 - EPA 5030B_MS

Blank (2E02017-BLK1) Continued

Prepared: 05/02/2012 10:57 Analyzed: 05/03/2012 01:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methylene chloride	0.23	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.16	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
n-Butyl Benzene	0.058	U	1.0	ug/L							
n-Propyl Benzene	0.12	U	1.0	ug/L							
sec-Butylbenzene	0.10	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
tert-Butylbenzene	0.17	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	46			ug/L	50.0		91	51-122			
<i>Surrogate: Dibromofluoromethane</i>	49			ug/L	50.0		97	68-117			
<i>Surrogate: Toluene-d8</i>	47			ug/L	50.0		94	67-127			

LCS (2E02017-BS1)

Prepared: 05/02/2012 10:57 Analyzed: 05/03/2012 02:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		107	75-133			
Benzene	20		1.0	ug/L	20.0		101	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		100	83-117			
Toluene	20		1.0	ug/L	20.0		98	71-118			
Trichloroethene	19		1.0	ug/L	20.0		97	82-118			

Matrix Spike (2E02017-MS1)

Prepared: 05/02/2012 10:57 Analyzed: 05/03/2012 02:44

Source: C204966-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.21 U	116	75-133			
Benzene	22		1.0	ug/L	20.0	0.15 U	108	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	105	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	100	82-118			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 2D20027 - EPA 245.1

Blank (2D20027-BLK1)

Prepared: 04/24/2012 13:13 Analyzed: 04/25/2012 09:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 2D20027 - EPA 245.1

LCS (2D20027-BS1)

Prepared: 04/24/2012 13:13 Analyzed: 04/25/2012 09:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.21		0.200	ug/L	5.00		104	80-120			

Matrix Spike (2D20027-MS1)

Prepared: 04/24/2012 13:13 Analyzed: 04/25/2012 09:25

Source: C203836-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.65		0.200	ug/L	5.00	0.170 U	93	75-125			

Matrix Spike Dup (2D20027-MSD1)

Prepared: 04/24/2012 13:13 Analyzed: 04/25/2012 09:28

Source: C203836-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.64		0.200	ug/L	5.00	0.170 U	93	75-125	0.2	25	

Post Spike (2D20027-PS1)

Prepared: 04/24/2012 13:13 Analyzed: 04/25/2012 09:30

Source: C203836-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.57		0.200	ug/L	5.00	-0.0120	92	75-125			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 2D24013 - EPA 3005A

Blank (2D24013-BLK1)

Prepared: 04/24/2012 09:48 Analyzed: 04/26/2012 11:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Selenium	2.70	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							

LCS (2D24013-BS1)

Prepared: 04/24/2012 09:48 Analyzed: 04/26/2012 11:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	200		10.0	ug/L	200		100	80-120			
Barium	207		10.0	ug/L	200		103	80-120			
Cadmium	21.0		1.00	ug/L	20.0		105	80-120			
Chromium	204		10.0	ug/L	200		102	80-120			
Lead	204		10.0	ug/L	200		102	80-120			
Selenium	203		10.0	ug/L	200		102	80-120			
Silver	206		10.0	ug/L	200		103	80-120			

Matrix Spike (2D24013-MS1)

Prepared: 04/24/2012 09:48 Analyzed: 04/26/2012 11:23

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 2D24013 - EPA 3005A

Matrix Spike (2D24013-MS1) Continued

Prepared: 04/24/2012 09:48 Analyzed: 04/26/2012 11:23

Source: C203836-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	204		10.0	ug/L	200	2.80 U	102	75-125			
Barium	352		10.0	ug/L	200	144	104	75-125			
Cadmium	21.1		1.00	ug/L	20.0	0.360 U	105	75-125			
Chromium	207		10.0	ug/L	200	1.00 U	103	75-125			
Lead	206		10.0	ug/L	200	1.90 U	103	75-125			
Selenium	208		10.0	ug/L	200	5.18	102	75-125			
Silver	205		10.0	ug/L	200	1.90 U	103	75-125			

Matrix Spike Dup (2D24013-MSD1)

Prepared: 04/24/2012 09:48 Analyzed: 04/26/2012 11:24

Source: C203836-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	195		10.0	ug/L	200	2.80 U	97	75-125	5	20	
Barium	347		10.0	ug/L	200	144	102	75-125	1	20	
Cadmium	20.5		1.00	ug/L	20.0	0.360 U	103	75-125	2	20	
Chromium	203		10.0	ug/L	200	1.00 U	102	75-125	2	20	
Lead	207		10.0	ug/L	200	1.90 U	103	75-125	0.2	20	
Selenium	208		10.0	ug/L	200	5.18	102	75-125	0.1	20	
Silver	202		10.0	ug/L	200	1.90 U	101	75-125	2	20	

Post Spike (2D24013-PS1)

Prepared: 04/24/2012 09:48 Analyzed: 04/26/2012 11:26

Source: C203836-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.200		0.0100	mg/L	0.200	0.000865	99	80-120			
Barium	0.342		0.0100	mg/L	0.200	0.144	99	80-120			
Cadmium	0.0205		0.00100	mg/L	0.0200	4.98E-5	102	80-120			
Chromium	0.202		0.0100	mg/L	0.200	0.000824	100	80-120			
Lead	0.201		0.0100	mg/L	0.200	0.000550	100	80-120			
Selenium	0.201		0.0100	mg/L	0.200	0.00518	98	80-120			
Silver	0.212		0.0100	mg/L	0.200	-0.000188	106	80-120			

FLAGS/NOTES AND DEFINITIONS

- B The analyte was detected in the associated method blank.
- D The sample was analyzed at dilution.
- J The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
- U The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
- MRL Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

